

CITY OF SPRINGFIELD
INTER-OFFICE MEMORANDUM

ATTENTION OF David G. Snider, P.E.
DEPARTMENT Director of Public Works

DATE October 1, 1974

Re: Sidewalk, East side of Lyon, North of Commercial

This memo is to confirm our conversation on September 26 concerning above reference. As I indicated, we had already been to the location and sampled the material. The appearance is the same as a substance commonly found at weep-holes in the stream bed where the larger storm sewer channels have been connected. We believe this brownish-orange slime to be caused by various types of iron bacteria. Analyses of the material did show elevated levels of iron. There may be some connection between the occurrence of the iron slime and questionable fill material behind the retaining wall, and excavation may be the remedy where complete cessation is mandatory. Responsibility can be extremely difficult to determine, as in most cases the appearance of this material may occur for years while property owners may change.

Another consideration is that the occurrence is common and the material does not seem to present an extremely serious water pollution problem. We see no problem in channeling the material down the east side of the sidewalk to a point beneath the underpass, and then across (or under) the sidewalk to the adjacent storm sewer. This is not to say that we really want it discharged to the stream system, but it seems apparent that it will end up there in any case.

Attached please find two Polaroid photographs. The first shows the slime characteristics to advantage, while the second angle better shows the coloration due to iron in the bacterial secretions.

CHC:cc

1800 N. Lyon - North of Commercial

SIGNED Charles H. Criswell
Associate Sanitary Engineer
Water Pollution Control

CITY OF SPRINGFIELD, MISSOURI
DEPARTMENT OF PUBLIC HEALTH AND WELFARE
GENERAL SANITATION SECTION

Date September 11, 1974

Time X A.M., P.M.

Lab. No. misc.

Sealed () Unsealed (X)
Official (X) Unofficial ()

(Fill in this space if illness occurred)

No. persons ill Symptoms

Time of ingestion

Time of onset of symptoms

Sample submitted by: Gene Pabst

Name Water seepage from ground at Lyon & Chase

Address Lyon and Chase, Missouri

Sample of waste water Perishable () Non-perishable ()

Condition of sample on arrival : Satisfactory () Unsatisfactory () Iced ()

Name of Manufacturer
(If not same as above)

Address , Missouri

Reason for analysis

TESTS TO BE RUN:

Chemical & Physical - - - Common Poisons (), Federal Standards (), Insects
(Eggs & Larvae) (), Insect fragments (), Sulphites (), Preservatives ()
Starches or cereals (), Filth (), Other (),
Chloride content

Bacteriological - - - -
Total Count (), Coliform (), Other

Sample received by

LABORATORY RESULTS & CONCLUSIONS: Analyst Date September 11, 1974

Chloride content of 71.8 ppm.

Arc Emission - Very Strong Lines for Iron
Moderate Lines for Zinc
Carbon Present

(Use back for additional information)

(1800 N Lyon) & Chase